

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: STEPHANIE L. SEIDMAN, ESQ.

PCT

FISH & RICHARDSON P.C. 12390 EL CAMINO REAL SAN DIEGO, CA 92130	RECEIVED	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND				
	MAY 3 1 2005	THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION				
	FISH & RICHARDSON, P.C	(PCT Rule 44.1)				
· · · · · · · · · · · · · · · · · · ·	SAN DIEGO	Date of mailing 25 MAY 2005 (day/month/year)				
Applicant's or agent's file reference 18202-022WO1	rence	FOR FURTHER ACTION See paragraphs 1 and 4 below				
International application No. PCT/US04/22907		International filing date (day/month/year) 16 July 2004 (16.07.2004)				
Applicant LIGAND PHARMACEUTICALS, INC						
1. The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.						
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):						
	When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.					
	Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 740 14 35					
For more details	ed instructions, see the notes on the s	ccompanying sheet.				
2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.						
3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:						
the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.						
no decision has	been made yet on the protest; the ap	plicant will be notified as soon as a decision is made.				
4. Reminders						
Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.						
The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.						
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.						
In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.						
See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.						
Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US Commissioner for Patents Amelia A. Owens						
P.O. Box 1450 Alexandria, Virginia 223 Facsimile No. (703) 305-3230	13-1450	Telephone No. 571-272-0700				
orm PCT/ISA/220 (January 2004).		(See notes on accompanying sheet)				
Docketed By Practic	e Systems 2 QSR	Docketed By Practice Systems Action Code: COO Co. 1				
Page Date: 5.05	105	Action Code: WOTC L				

Initial:..

Base Date: Due Date:

Deadline:_ Initial:_

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Form PCT/ISA/220 ACTION se well as, where applicable, item 5 below.				
International application No. PCT/US04/22907	International filing date (day/month/year) 16 July 2004 (16.07.2004)	(Earliest) Priority Date (day/month/year) 16 July 2003 (16.07.2003)			
Applicant LIGAND PHARMACEUTICALS, INC	:				
This international search report has been according to Article 18. A copy is being	prepared by this International Searching Autransmitted to the International Bureau.	thority and is transmitted to the applicant			
This international search report consists o	f a total of <u>2</u> sheets. by a copy of each prior art document cited i	in this report.			
ranguage in winch it was nied, uni	nternational search was carried out on the basi less otherwise indicated under this item.	•			
to this Authority ()	* **				
	e and/or amino acid sequence disclosed in the	e international application, see Box No. I.			
I [] .	insearchable (See Box No. II)	•			
Unity of invention is lacking With regard to the title,	(See Box No. III)				
the text is approved as submit	ted by the applicant.				
the text has been established b	y this Authority to read as follows:				
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	• :				
•					
•					
		·			
5. With regard to the abstract,					
the text is approved as submitted	· · · · · · · · · · · · · · · · · · ·				
the text has been established, ac may, within one month from the	ecording to Rule 38.2(b), by this Authority as e date of mailing of this international search re	it appears in Box No. IV. The applicant eport, submit comments to this Authority.			
6. With regard to the drawings,	lished with the abstract is Figure No.				
as suggested by the app	-				
as selected by this Authority, because the applicant failed to suggest a figure.					
as selected by this Authority, because the applicant raised to suggest a figure. as selected by this Authority, because this figure better characterizes the invention.					
b. none of the figures is to be publ		me invention.			
orm PCT/ISA/210 (first sheet) (January 2004)	SINCE WITH THE BOSTFACE				

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/22907

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : A61K 31/47,31/385,31/35,31/075; C07D 311/04,335/04,215/00,215/16; C07C 41/00						
US CL	: 514/434,456,311,717; 546/152,178; 549/23,434	4; 568/632				
According to International Patent Classification (IPC) or to both national classification and IPC						
B. FIEL	DS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols) U.S.: 514/434,456,311,717; 546/152,178; 549/23,434; 568/632						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) STN						
	UMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.			
X	US 5,015,658 A (CHANDRARATNA) 14 May 1991 species.	1,8,15,23,30,38				
A			2-7,9-14,16-22,24- 29,31-37,39-114			
X 	US 6,391,287 B1 (BALDO et al) 21 May 2002 (21.0 several species	1,8,15,23,30,38				
A			2-7,9-14,16-22,24- 29,31-37,39-114			
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	documents are listed in the continuation of Box C.	See patent family annex.				
"A" document defining the general state of the art which is not considered to be of		"T" later document published after the inter date and not in conflict with the applica principle or theory underlying the inver	ation but cited to understand the			
particular relevance "E" earlier application or patent published on or after the international filing date		"X" document of particular relevance; the c considered novel or cannot be consider when the document is taken alone				
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y" document of particular relevance; the c considered to involve an inventive step	when the document is			
"O" document referring to an oral disclosure, use, exhibition or other means		combined with one or more other such being obvious to a person skilled in the				
"P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent f	amily			
Date of the actual completion of the international search 19 April 2005 (19.04.2005)		Date of mailing of the international search 25 MAY 2005	n report			
	illing address of the ISA/US	Authorized officer				
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450		Amelia A. Owen	se Cap			
Alex	sandria, Virginia 22313-1450 . (703) 305-3230	Telephone No. 571-272-0700	かと			

Form PCT/ISA/210 (second sheet) (January 2004)